

DEPARTMENT OF THE INTERIOR – AVIATION MANAGEMENT
AIRCRAFT RENTAL AGREEMENT PROVISIONS: SUPPLEMENT NO. 14
RENTAL OF TANDEM SEAT AIRPLANES

Definitions

The use of tandem seat airplanes will be considered special use in Alaska and all services will be acquired and operated under this supplement. The ever-present possibility of overloading these aircraft to accomplish the day-to-day flight operations requires that inspection and approval of each aircraft and pilot be accomplished prior to use.

Low Level Any flight less than 500 feet from the surface. (Not including takeoff and landing.)

B8.14.1 GENERAL – Refer to Section B1

B8.14.2 FLIGHT OPERATIONS

B8.14.2.1 Low level flight may be required, 14 CFR 135.203 notwithstanding. The minimum safe altitude requirements of 14 CFR 91.119 will be adhered to at all times.

B8.14.2.2 The Project Weight & Balance Calculation worksheet, (enclosed for your use), shall be prepared prior to flight. This form shall be updated whenever mission requirements change the previous calculation.

B8.14.2.3 The OAS-23 payment document must record each takeoff and landing as a line item entry. A properly prepared Weight and Balance Calculation worksheet shall be presented in support of the OAS-23 payment document.

B8.14.3 PERSONNEL REQUIREMENTS

B8.14.3.1 Pilot flight experience will include 200 hours pilot-in-command (PIC), in low level operations such as power line/pipeline patrol, agriculture crop dusting/spraying operations, wildlife electronic/visual surveys, other low level flight operations that build the additional pilot skills required to maintain aircraft airspeed and altitude in varying winds over typical terrain.

B8.14.3.2 Pilots shall document evidence of their experience in low level operations on an OAS-31, Pilot Experience Verification Form. Pilots shall demonstrate the ability to safely conduct low level flight to an agency inspector pilot. Specific mission approval will be entered on the back of the OAS-30A Pilot Qualification Card.

B8.14.3.3 Personal Protective Equipment (PPE). The following items shall be worn by the pilot, be operable, and maintained in good repair:

B8.14.3.3.1 An aviator's flight helmet, consisting of a one-piece hard shell made of polycarbonate, Kevlar, carbon fiber, or fiberglass, must cover the top, sides (including the temple area and to below the ears), and the rear of the head. The helmet shall be equipped with a chinstrap and appropriately adjusted for proper fit, and be compatible with required avionics (see section B8.14.5). "Shorty" (David Clark style) helmets are not approved. Flight helmets currently meeting this requirement are the SPH-3, SPH-4, SPH-5, SPH-4B, SPH-8, HGU-56 and HGU-84.

B8.14.3.3.2 Vendor personnel, while flying, shall wear a long-sleeved shirt and trousers (or long-sleeved flight suit) made of fire-resistant polyamide or aramid material, leather boots, and leather, polyamide, or aramid gloves. The long-sleeved shirt shall overlap the gloves, and the pants shall overlap the boots by at least 2 inches. Personnel shall not wear clothing made of non fire-resistant synthetic material under the fire-resistant clothing described above.

B8.14.4 EQUIPMENT REQUIREMENTS

B8.14.4.1 Aircraft shall be equipped with double strap shoulder harnesses and lap belts for both occupants.

Revised (1/06)

Shoulder straps and lap belt shall fasten with metal-to-metal, single point, quick-release mechanism. Shoulder strap metal fittings shall be of the slotted type which are secured by the seat belt buckle latch. Shoulder harness straps shall disengage from the seat belt when the seat belt is released.

B8.14.4.2 PA-18 aircraft will provide a maximum certificated (MCGW) of 2000 pounds per STC SA 00997CH or equivalent.

B8.14.4.3 A first aid kit containing items specified in Exhibit 4 shall be furnished by the Vendor and carried aboard the aircraft on all flights.

B8.14.4.4 A survival kit containing items specified in Exhibit 4 shall be furnished by the Vendor and carried aboard the aircraft on all flights.

B8.14.5 AVIONICS REQUIREMENTS

B8.14.5.1 An intercommunications system (ICS) shall be provided for the pilot and observer/aft passenger positions. ICS audio shall mix with, but not mute, selected receiver audio. An ICS audio level control shall be provided. ICS sidetone audio shall be provided for the earphones corresponding with the microphone in use. The ICS audio output shall be free of excessive distortion, hum, noise, and crosstalk, and shall be amplified sufficiently to facilitate ease of use in a noisy cockpit/cabin environment.

B8.14.5.1.1 The system shall be designed for operation with 600-ohm earphones and carbon-equivalent, noise-canceling boom type microphones (Gentex electret type Model 5060-2, military dynamic type M-87/AIC with CE-100 TR preamplifier, or equivalent).

B8.14.5.1.2 Separate PTT switches shall be provided for radio transmitter and ICS microphone operation at the pilot position. The pilot's PTT switches shall be mounted on the control stick. The observer position shall be equipped with an ICS PTT switch mounted on the cord to the headset/microphone connector. NOTE: ICS PTT switches are not required for use with voice-activated (VOX) ICS systems.

B8.14.6 MAINTENANCE REQUIREMENTS

B8.14.6.1 Prior to use by the Department of the Interior, tandem airplanes shall be weighed in the presence of a DOI inspector. The aircraft shall be weighed utilizing certified scales acceptable to the Government.

B8.14.6.1.1 The aircraft shall be defueled prior to weighing.

B8.14.6.1.2 The following equipment shall be on board the aircraft during weighing:

- a. Full engine oil.
- b. Flight manual.
- c. Fire extinguisher.
- d. First aid kit.
- e. Survival kit.

B8.14.6.1.3 The aircraft records must include an accurate equipment list which shows weight and arm of all installed equipment.

B8.14.6.1.4 The operator shall prepare a weight and balance report for each aircraft configuration offered. The report shall show the most adverse loading limits and a copy of these documents will be maintained in the aircraft. The accurate maintenance of these records may preclude recurrent weighing of the aircraft.

B8.14.6.2 Time Between Overhaul and Life Limited Parts.

B8.14.6.2.1 All components, including engines, shall be replaced upon reaching the factory-recommended TBO or FAA-approved extension. Life limited parts shall be replaced at the specified time in service hours or cycles.

Revised (1/06)

B8.14.6.2.2 Aircraft operated with components or accessories on approved TBO extension programs are acceptable provided: (1) the Vendor is the holder of the approved extension authorization (not the owner if the aircraft is leased), and (2) the Vendor operates in accordance with the extension authorization.

B8.14.6.2.3 The Vendor shall supply, at the time of the initial agency inspection, a list of all items installed on the aircraft that are required to be overhauled or replaced on a specified time basis. This list shall include the components name, part number, serial number, total time, service life (or inspection/overhaul time interval), and time and date when component was overhauled, replaced, or inspected.

FIRST AID & SURVIVAL KITS

These are minimum required items for Special Use Activities in the United States and U.S. Possessions. Additional survival kit items are required for flight activities conducted in Canada and Alaska.

Minimum First Aid Kit Items

Each kit must be in a dust-proof and moisture-proof container.
The kit must be readily accessible to the pilot and passengers.

Item	Passenger Seats	Passenger Seats
	0-9	10-50
Adhesive bandage strips, (3"long)	8	16
Antiseptic or alcohol wipes (pkts)	10	20
Bandage compresses, 4"	2	4
Triangular bandage, 40" (sling)	2	4
Roller bandage, 4"x 5 yds (gauze)	2	4
Adhesive tape, 1"x 5 yds (std roll)	1	2
Bandage scissors	1	1
Body Fluids Barrier kit:	1	1
2 - pair latex gloves		
1 - face shield		
1 - mouth-to-mouth barrier		
1 - protective gown		
2 - antiseptic towelettes		
1 - biohazard disposable bag		

NOTE: Splints are recommended if space permits.

MINIMUM AIRCRAFT SURVIVAL KIT ITEMS

These are minimum required items for special use activities in the conterminous United States (including Alaska) and U.S. possessions.

Fire Starter (can be two boxes of matches in a waterproof container)	Magnesium fire starter
One knife	Signal Mirror
Signal Flares (six each) or One 72-Hour Laser Type Flare	Food (two days emergency rations per occupant)
Candles	Water purification tablets
Collapsible water bag	Whistle
Space Blanket (one per occupant)	Nylon rope or parachute cord (50 feet)

These are additional items for the contiguous U.S. and U.S. Possessions:

Water (one quart per occupant required when operating over areas without adequate drinking water)

These are additional items for Alaska only:

Rations for each occupant sufficient to sustain life for one week
One axe or hatchet
One first aid kit
One mosquito headnet for each occupant
Insect repellent
An assortment of tackle such as hooks, flies, lines, sinkers, etc.

OCTOBER 15 TO APRIL 1

One pair of snowshoes
One sleeping bag
One wool blanket or equivalent for each occupant over four years of age

Note: Operators of multiengine aircraft licensed to carry more than 15 passengers need carry only the food, mosquito nets, and signaling equipment at all times other than the period from October 15 to April 1 of each year, when two sleeping bags and one blanket for every two passengers shall also be carried. All of the above emergency rations and equipment requirements are the minimum requirements under current law.